SI-3SY0A-001-00

General Safety Information

⚠ WARNING

- Check that the wheels are fastened securely before riding the bicycle. If the wheels are loose in any way, they may come off the bicycle and serious injury may result.
- **Obtain and read the service instructions carefully prior to installing the parts.** Loose, worn or damaged parts may cause the bicycle to fall over and serious injury may occur as a result. We strongly recommend only using genuine Shimano replacement parts.
- Read these Technical Service Instructions carefully, and keep them in a safe place for later reference.

⚠ CAUTION

- If the CS-HG61 cassette sprocket (12-36T) is installed onto a mountain bike, a large gear ratio between front and rear rings can be obtained so that the mountain bike can ride up steep slopes, but this will also place a heavy load on the rear hub. Shimano provides a rear hub which can provide enough strength and durability if using this cassette sprocket in combination with a front chainwheel set (22-32-44T).
  If using the cassette sprocket in combination with any hub other than the FH-M629/FH-M529, the hub may become damaged. Check the Shimano website for the most up-to-date information regarding compatible Shimano hubs. (http://www.shimano.com)

Note

- The FH-M629/FH-M529 is compatible with the CS-HG61 (12-36T).
- Use the CS-HG61 in combination with 9-speed chains (CN-7701 / HG93 / HG73 / HG53).
- If the wheel becomes stiff and difficult to turn, you should lubricate it with grease.
- Do not apply any oil to the inside of the hub, otherwise the grease will come out.
- You should periodically wash the sprockets in a neutral detergent and then lubricate them again. In addition, cleaning the chain with neutral detergent and lubricating it can be a effective way of extending the useful life of the sprockets and the chain.
- If the chain keeps coming off the sprockets during use, replace the sprockets and the chain.
- Parts are not guaranteed against natural wear or deterioration resulting from normal use.
- For maximum performance we highly recommend Shimano lubricants and maintenance products.

Technical Service Instructions SI-3SY0A-001

FH-M629 / FH-M595
FH-M590 / FH-M529

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Freehub

SHIMANO

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Specifications

Freehub

Model number	FH-M529 / FH-M595 FH-M590 / FH-M629
Gears	9
No. of spoke holes	36 / 32

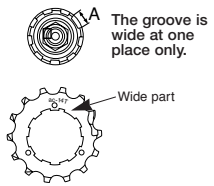
Cassette sprocket tooth combination

Model number	Group name	Gears	Tooth combination
CS-HG61	**ar**	9	11, 12, 14, 16, 18, 21, 24, 28, 32T
	au	9	11, 13, 15, 17, 20, 23, 26, 30, 34T
	bg	9	11, 12, 13, 14, 16, 18, 21, 24, 28T
	bh*	9	12, 14, 16, 18, 21, 24, 28, 32, 36T

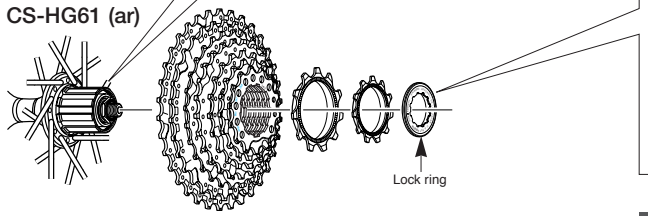
* Applicable freehub : FH-M629 / FH-M529

Installation of the sprockets

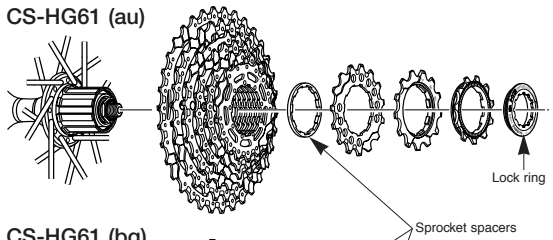
For each sprocket, the surface that has the group mark should face outward and be positioned so that the wider part of each sprocket and the A part (where the groove width is wide) of the freewheel body are aligned.



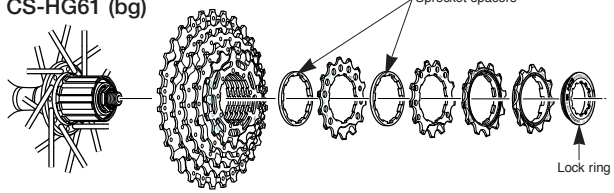
CS-HG61 (ar)



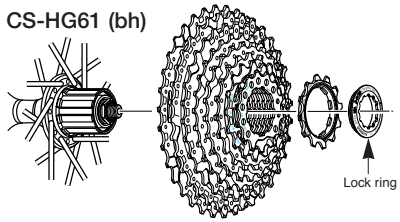
CS-HG61 (au)



CS-HG61 (bg)



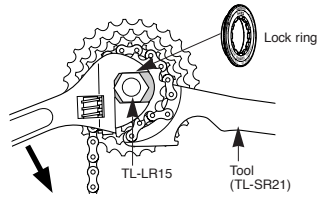
CS-HG61 (bh)



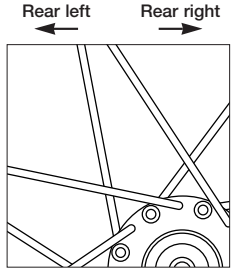
- For installation of the sprockets, use the special tool (TL-LR15) to tighten the lock ring.

Tightening torque:
30 - 50 N·m {261 - 434 in. lbs.}

- To replace the sprockets, use the special tool (TL-LR15) and TL-SR21 to remove the lock ring.



Wheel spoke lacing

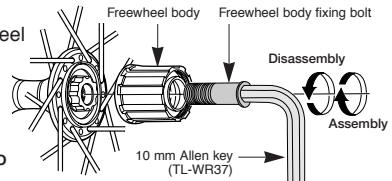


<FH-M629 / FH-M595 / FH-M529>

Check that the spokes have been laced as shown in the illustration.
A radial assembly cannot be used.

Replacement of the freewheel body

After removing the hub axle, remove the freewheel body fixing bolt (inside the freewheel body), and then replace the freewheel body.



Note: Do not attempt to disassemble the freewheel body, because it may result in a malfunction.

Tightening torque :
35 - 50 N·m {305 - 434 in. lbs.}